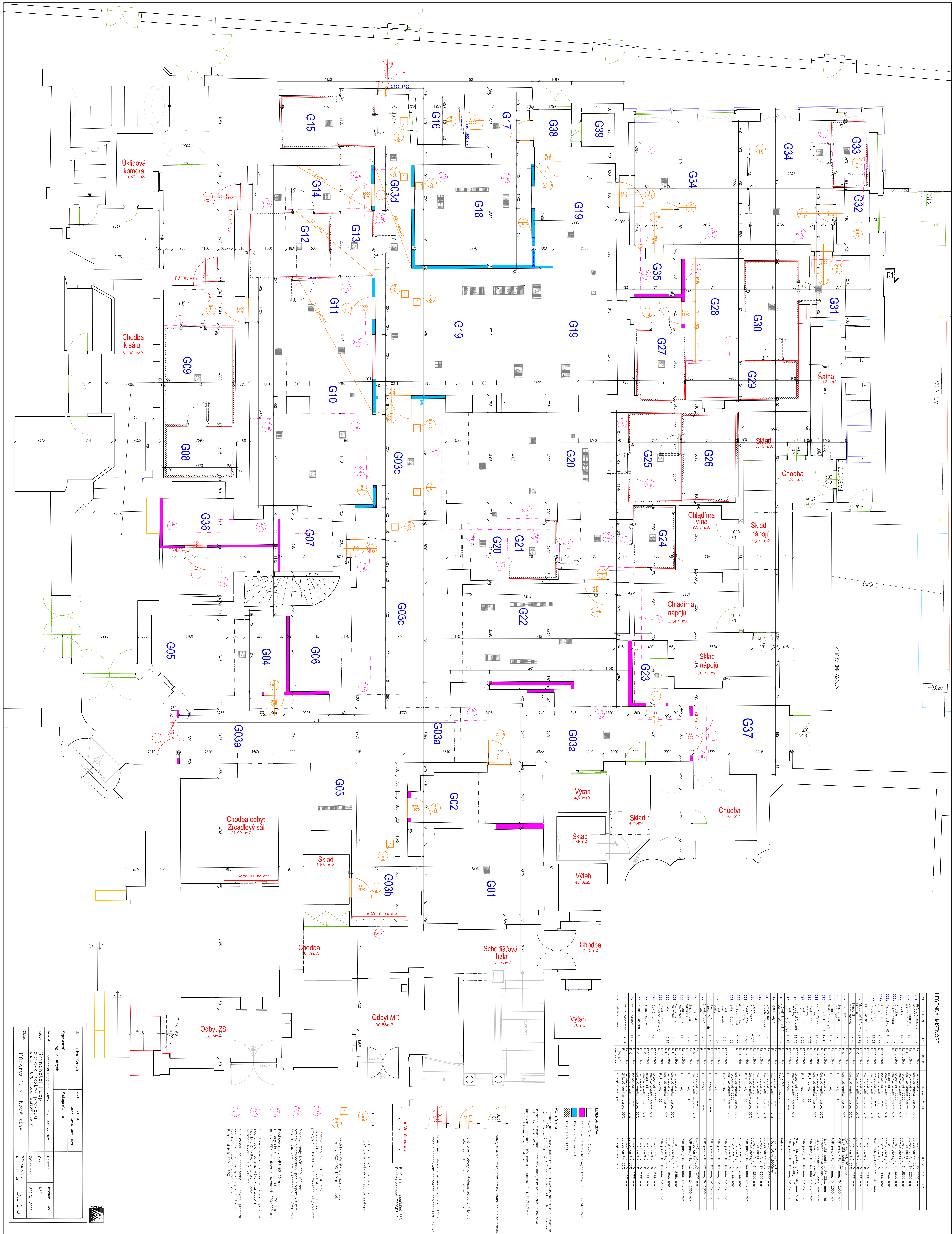




Index	Material	Size (mm)	Volume (mm ³)	Weight (g)	Stress (MPa)	Strain (%)
001	Aluminum 6061-T6	10 x 10 x 10	1000	2.70	100	0.2
002	Steel A36	10 x 10 x 10	1000	7.85	250	0.5
003	Carbon Fiber	10 x 10 x 10	1000	1.50	500	1.0
004	Concrete C30	10 x 10 x 10	1000	2.35	30	0.1
005	Wood Pine	10 x 10 x 10	1000	0.50	10	0.05
006	Brick Common	10 x 10 x 10	1000	1.80	15	0.02
007	Glass Soda	10 x 10 x 10	1000	2.50	100	0.1
008	Plastic ABS	10 x 10 x 10	1000	1.20	50	0.2
009	Composites Kevlar	10 x 10 x 10	1000	1.40	400	0.8
010	Aluminum 7075	10 x 10 x 10	1000	2.80	150	0.3
011	Steel Inconel	10 x 10 x 10	1000	8.00	300	0.6
012	Carbon Fiber GFRP	10 x 10 x 10	1000	1.60	600	1.2
013	Concrete High-Strength	10 x 10 x 10	1000	2.40	50	0.1
014	Wood Bamboo	10 x 10 x 10	1000	0.60	15	0.05
015	Brick Ceramic	10 x 10 x 10	1000	1.90	18	0.03
016	Glass Tempered	10 x 10 x 10	1000	2.60	120	0.1
017	Plastic Polycarbonate	10 x 10 x 10	1000	1.30	60	0.2
018	Composites Carbon	10 x 10 x 10	1000	1.50	700	1.5
019	Aluminum 5052	10 x 10 x 10	1000	2.60	120	0.3
020	Steel 304	10 x 10 x 10	1000	7.90	280	0.6
021	Carbon Fiber CFRP	10 x 10 x 10	1000	1.70	800	1.8
022	Concrete Normal	10 x 10 x 10	1000	2.30	35	0.1
023	Wood Oak	10 x 10 x 10	1000	0.70	12	0.05
024	Brick Special	10 x 10 x 10	1000	2.00	20	0.04
025	Glass Laminated	10 x 10 x 10	1000	2.70	150	0.1
026	Plastic PETG	10 x 10 x 10	1000	1.40	70	0.2
027	Composites Fiberglass	10 x 10 x 10	1000	1.60	300	1.0
028	Aluminum 2024	10 x 10 x 10	1000	2.70	180	0.4
029	Steel 316	10 x 10 x 10	1000	8.00	320	0.7
030	Carbon Fiber UFRP	10 x 10 x 10	1000	1.80	900	2.0
031	Concrete Prestressed	10 x 10 x 10	1000	2.50	45	0.1
032	Wood Maple	10 x 10 x 10	1000	0.80	14	0.05
033	Brick Glazed	10 x 10 x 10	1000	2.10	22	0.05
034	Glass Acrylic	10 x 10 x 10	1000	2.80	180	0.1
035	Plastic HDPE	10 x 10 x 10	1000	1.50	80	0.2
036	Composites Kevlar	10 x 10 x 10	1000	1.40	450	0.9
037	Aluminum 6061	10 x 10 x 10	1000	2.70	100	0.3
038	Steel 430	10 x 10 x 10	1000	7.80	260	0.6
039	Carbon Fiber BFRP	10 x 10 x 10	1000	1.90	1000	2.2
040	Concrete Lightweight	10 x 10 x 10	1000	2.20	38	0.1
041	Wood Birch	10 x 10 x 10	1000	0.90	16	0.05
042	Brick Perforated	10 x 10 x 10	1000	2.00	19	0.04
043	Glass Clear	10 x 10 x 10	1000	2.50	110	0.1
044	Plastic PPS	10 x 10 x 10	1000	1.60	90	0.2
045	Composites Carbon	10 x 10 x 10	1000	1.50	850	1.6
046	Aluminum 7050	10 x 10 x 10	1000	2.80	160	0.4
047	Steel 904L	10 x 10 x 10	1000	8.10	350	0.8
048	Carbon Fiber VFRP	10 x 10 x 10	1000	2.00	1100	2.5
049	Concrete Self-Healing	10 x 10 x 10	1000	2.60	48	0.1
050	Wood Walnut	10 x 10 x 10	1000	1.00	18	0.05
051	Brick Solid	10 x 10 x 10	1000	2.20	25	0.05
052	Glass Mirror	10 x 10 x 10	1000	2.60	130	0.1
053	Plastic PC	10 x 10 x 10	1000	1.40	100	0.2
054	Composites Fiberglass	10 x 10 x 10	1000	1.70	350	1.1
055	Aluminum 3003	10 x 10 x 10	1000	2.70	90	0.3
056	Steel 309	10 x 10 x 10	1000	8.00	380	0.8
057	Carbon Fiber EFRP	10 x 10 x 10	1000	2.10	1200	2.8
058	Concrete Ultra-High	10 x 10 x 10	1000	2.80	60	0.1
059	Wood Teak	10 x 10 x 10	1000	1.10	20	0.05
060	Brick Textured	10 x 10 x 10	1000	2.30	28	0.05
061	Glass Smart	10 x 10 x 10	1000	2.90	200	0.1
062	Plastic PI	10 x 10 x 10	1000	1.70	120	0.2
063	Composites Carbon	10 x 10 x 10	1000	1.60	950	1.7
064	Aluminum 2017	10 x 10 x 10	1000	2.70	190	0.4
065	Steel 321	10 x 10 x 10	1000	8.10	400	0.9
066	Carbon Fiber PRFP	10 x 10 x 10	1000	2.20	1300	3.0
067	Concrete Fiber-Reinforced	10 x 10 x 10	1000	2.70	55	0.1
068	Wood Redwood	10 x 10 x 10	1000	1.20	22	0.05
069	Brick Smooth	10 x 10 x 10	1000	2.40	30	0.05
070	Glass Flexible	10 x 10 x 10	1000	3.00	250	0.1
071	Plastic PEI	10 x 10 x 10	1000	1.80	150	0.2
072	Composites Carbon	10 x 10 x 10	1000	1.70	1000	1.9
073	Aluminum 7030	10 x 10 x 10	1000	2.80	170	0.4
074	Steel 347	10 x 10 x 10	1000	8.20	420	0.9
075	Carbon Fiber ZFRP	10 x 10 x 10	1000	2.30	1400	3.2
076	Concrete High-Density	10 x 10 x 10	1000	2.90	65	0.1
077	Wood Cedar	10 x 10 x 10	1000	0.90	18	0.05
078	Brick Gloss	10 x 10 x 10	1000	2.50	32	0.05
079	Glass Conductive	10 x 10 x 10	1000	3.10	300	0.1
080	Plastic PEEK	10 x 10 x 10	1000	1.90	180	0.2
081	Composites Carbon	10 x 10 x 10	1000	1.80	1100	2.1
082	Aluminum 7040	10 x 10 x 10	1000	2.80	180	0.4
083	Steel 350	10 x 10 x 10	1000	8.30	450	0.9
084	Carbon Fiber MFRP	10 x 10 x 10	1000	2.40	1500	3.5
085	Concrete Ultra-Dense	10 x 10 x 10	1000	3.00	70	0.1
086	Wood Mahogany	10 x 10 x 10	1000	1.00	20	0.05
087	Brick Matte	10 x 10 x 10	1000	2.60	35	0.05
088	Glass Piezoelectric	10 x 10 x 10	1000	3.20	400	0.1
089	Plastic PI	10 x 10 x 10	1000	1.90	160	0.2
090	Composites Carbon	10 x 10 x 10	1000	1.90	1200	2.2
091	Aluminum 7050	10 x 10 x 10	1000	2.80	180	0.4
092	Steel 360	10 x 10 x 10	1000	8.40	480	0.9
093	Carbon Fiber NFRP	10 x 10 x 10	1000	2.50	1600	3.8
094	Concrete High-Strength	10 x 10 x 10	1000	3.00	75	0.1
095	Wood Rosewood	10 x 10 x 10	1000	1.10	22	0.05
096	Brick Gloss	10 x 10 x 10	1000	2.70	38	0.05
097	Glass Thermotropic	10 x 10 x 10	1000	3.30	500	0.1
098	Plastic PI	10 x 10 x 10	1000	2.00	180	0.2
099	Composites Carbon	10 x 10 x 10	1000	2.00	1300	2.3
100	Aluminum 7050	10 x 10 x 10	1000	2.80	190	0.4